

5 METHOD OF IMPROVING THE OPERATION OF AN EXISTING ETHYLENE
OXIDE MANUFACTURING PROCESS AND SYSTEM

ABSTRACT

10 Described is a method of improving the process and
operation of an existing system for manufacturing
ethylene oxide. The ethylene oxide manufacturing system
includes an epoxidation reactor system containing a
volume of high activity epoxidation catalyst. The method
includes replacing a portion of the volume of high
15 activity epoxidation catalyst with a volume of high
selectivity catalyst, and modifying the operation of the
process system so as to provide for a feed to the
epoxidation reactor system having a reduced carbon
dioxide concentration.